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PREFATORY NOTE

This list has been prepared in response to requests received from time to time. It has hitherto been distributed in typewritten form, but to meet demands it is now reduced to print. It is in no sense exhaustive, even of the resources of the Library, but is intended to serve as a ready-to-hand guide to accessible material.

Current statistical publications, etc.—The "Statistical abstract of the United Kingdom" gives tabulated statistics of the imports and exports of iron and steel, giving quantities and declared values, also the quantities and value of pig iron purchased in the United Kingdom. The "Accounts relating to trade and navigation of the United Kingdom," published annually, give the quantities and value of specific manufactures of iron and steel, with statement of the exports to the different countries. The "Accounts relating to the trade and commerce of certain foreign countries and British possessions" show quantities and value of iron and steel exports and imports of the principal countries of the world. These are all publications of the British board of trade, and are issued as Parliamentary documents.

Annual publications dealing exclusively with statistics of iron and steel: American iron and steel association; British iron trade association. *See also* Periodicals noted below.

The statistics of production and manufactures and exports of iron and steel for Germany are given in tabular form in the "Statistisches Jahrbuch für das Deutsche Reichs." This work also contains quotations of prices of pig iron. More detailed statistics of exports and imports are given in the "Vierteljahrshefte zur Statistik des Deutschen Reichs" and in "Statistik des Deutschen Reichs: Auswärtiger Handel; Der Verkehr mit den einzelnen Ländern" (annual), published by the Imperial statistical office.

Prices.—Current prices may be found among others in the "Iron Age," "Iron Trade Circular," "Iron and Coal Trades Review," "The Statist," "The Economist" (London). The import and export prices of iron and steel products are given in the "Statistical Abstract for the United Kingdom." The "Report of wholesale and retail prices in the United Kingdom," published by the Board of trade, 1903, gives "ascertained" prices of iron and steel products for some items covering the years 1854 to 1902; for

others, shorter periods in most cases going back to 1870. Another Board of trade report containing material relating to prices is "Tables showing for each of the years 1900–1905 the estimated value of imports into the United Kingdom, and exports from the United Kingdom of articles of British and Irish production at the prices prevailing in 1900."

German Steel Kartell, etc.—The "Commercial Intelligence," London, has printed at frequent intervals letters giving a survey of operations in iron and steel in Germany. Proceedings of the Iron and Steel Kartell in Germany are reported monthly in Conrad's "Jahrbücher für Nationalökonomie und Statistik," under "Kartellwesen." An extended investigation of this Iron and Steel Kartell was made under the direction of the German Interior Department and published in two volumes, entitled "Kontradiktorische Verhandlungen über deutsche Kartelle."

Periodicals.—The following periodicals, dealing principally with iron and steel, are received currently by the Library:

American Iron and Steel Association, Publications, Philadelphia; American Manufacturer and Iron World, Pittsburg; Bradstreet's, New York; Cassier's Magazine, New York; Colliery Guardian and Journal of the Coal and Iron Trades, London; The Foundry, a trade journal, Cleveland; Industries and Iron, a journal for the engineering, electrical, chemical, and metal trades, London; Industrial World, devoted to the metal, electrical, mining, and allied industries, Pittsburg; Iron Age, a review of hardware, iron, machinery, and metal trades, New York; Iron and Coal Trades Review, London; Iron and Machinery World, Chicago; Iron and Steel Institute Journal, London; Iron and Steel Trades Journal and Colliery Engineer, London; Iron Molders' Journal, Cincinnati; Iron Trade Review, Cleveland; Iron Trades Circular, Birmingham, England (ordered); The Ironmonger, London; Mines and Minerals, a mining and metallurgical journal, Scranton, Pa., and Denver; Pacific Coast Wood and Iron, San Francisco; Page's Weekly, London; Staffordshire Iron and Steel Institute, Proceedings, Brierley-Hill, England; Stahl und Eisen, Düsseldorf; The Statist, London; Verein deutscher Eisen- und Stahl-Industrieller, Berlin.

Bibliography.—Great Britain. Subject list of works on the mineral industries and allied sciences, in the library of the Patent office. London, 1903.

A. P. C. Griffin
Chief Bibliographer

Herbert Putnam
Librarian of Congress
Washington, D. C., March 12, 1907

LIST OF REFERENCES ON IRON AND STEEL, PRINCIPALLY AS REGARDS COMMERCE

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New York and London: Harper & bros., 1901. viii, 139 pp. 8°.

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[*Philadelphia. 1874.*] *10, (1) pp. 8°.*

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Braunschweig: F. Vieweg und Sohn, 1884–1903. 5 vols. Illustrations. Diagrams. 8°.

Bell, *Sir* Lowthian. The iron trade of the United Kingdom compared with that of the other chief iron-making nations.
London: British iron trade association, 1886. viii, 168 pp. 8°.

Blake, William Phipps. Report on iron and steel.
Washington: Government printing office, 1876. (2), ix, 311 pp. Illustrations. Plates. Folded plans. Diagrams. 8°. (U. S. Commission to the Vienna exhibition, 1873. Reports. 1875–76, vol. 4, E.)

Bridge, James Howard. The history of the Carnegie steel company; an inside review of its humble origin and impressive growth.
New York: The Aldine book company, 1903. (2), xv, 369 pp. Frontispiece. Illustrations. Plates. Portraits. 8°.

British iron trade association. American industrial conditions and competition; reports of the commissioners appointed by the British iron trade association, to enquire into the iron, steel, and allied industries of the United States. Ed. by J. Stephen Jeans.

London: The British iron trade association, 1902. xxvi, 590 pp. Illustrations. Folded plates. Folded maps. 4°.

——— Annual statistical report of the Secretary to the members of the British iron trade association on the home and foreign iron and steel industries. 1879–81, 1890, 1906.

London: E. & F. N. Spon, [etc.], 1880–1906. 5 vols. 8°.

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CONTENTS.—Iron ores; Refractory materials; Fuel; Production of pig iron; Production of malleable iron; Forge and mill machinery; Production of steel; Further treatment of iron and steel; Physical properties; Chemical properties; Chemical analysis; Statistics; United Kingdom; Australasia; Austria-Hungary; Belgium, Canada, China, France, Germany, Holland, India, Japan, Mexico, Norway, Portugal, Roumania, Russia, South America, Spain, Sweden, United States, Comparative statistics; Bibliography, (Jan.–June, 1904).

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London, New York and Bombay: Longmans, Green, and co., 1904. xxxv, 301 pp. 8°.

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Washington, 1844. 32 pp. 8°.

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Farquhar, Arthur B. A steel trust episode. 7 pp.

(*In* New England free trade league. Tariff-trust articles, 1900–1901. Boston, 1901. 8°.)

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Fleming, Robert. Depraved finance.

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"The Steel trust—how the plunder was extracted from steel," pp. 157–178.

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Berlin: Franz Siemenroth, 1904–1905. 2 vols. 8°.

CONTENTS.—Vol. 1. Bericht über das Kartellwesen in der inländischen Eisenindustrie; Verhandlungen über die Rheinisch-Westfälischen Roheisensyndikate am 30. November und 1. Dezember 1903 im Reichstagsgebäude. Verhandlungen über den Halbzeug-Verband am 2. und 3. Dezember 1903 im Reichstagsgebäude; Verhandlungen über den Verband deutscher Drahtwalzwerke und den Verband deutscher Drahtstiftfabrikanten am 30. Juni 1904 im Reichstagsgebäude; Anlagen.

Vol. 2. Verhandlungen über den Weissblechverband am 19. Juni 1905 im Reichstagsgebäude zu Berlin; Anlagen: I. Materialien für die Verhandlungen; II. Vereinigung der Weissblech verarbeitenden Industriellen Deutschlands. Denkschrift zu den kontradiktorischen Verhandlungen; III. Weissblechkartell. Amtlicher Fragebogen—Verhandlungen über die Stahlwerksverbände am 20. und 21. Juni 1905 im Reichstagsgebäude zu Berlin; Anlagen.

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Contents.—Vol. 1. Value of exports to protected and unprotected markets of certain classes of British produce: Iron, steel, and other metals, etc., page 23; Quantities of iron and steel, wrought and unwrought, plates and sheets, rails, and tinplates and sheets, exported from United Kingdom to protected and unprotected markets, pp. 26–27; Value of the imports into the United Kingdom of articles manufactured or partly manufactured [including bar and pig iron, unwrought steel and iron and steel manufactures] from Germany, Belgium, Holland, France, Russia, Italy, and the United States, 74–95; Weekly rates of wages of iron founders 1874–1902, as recognized in the under-mentioned towns by trade unions, p. 265; Annual earnings of coal miners, iron miners, and other miners in certain years from 1844 to 1901, expressed

as percentages of wages in 1900, (France), p. 279; Wages of workmen employed in Krupp's foundries, in certain years from 1850 to 1900, (Germany), p. 280; Wages of iron workers, from 1845 to 1900, expressed as percentages of the wages in 1900, (Belgium), p. 281; Wages of Bohemian miners, coal, lignite, and iron in each year from 1876 to 1900, expressed as percentages of the wages in 1900, (Austria), p. 283; Memorandum on the export policy of trusts in certain foreign countries. The German empire: Kartells of rolled wire manufacturers, and of the wire nail trade, etc., pp. 300–309; German and American iron and steel in the British market, 1900–1903, pp. 343–357; List of certain principal articles exported from foreign countries, the output or sale of which is, to a greater or less extent, understood to be controlled by trusts, kartells, syndicates, &c. (includes iron and steel, cast or wrought), p. 358; Table showing the number of persons in England and Wales occupied in iron and steel manufacture, pp. 362, 364, 369; Output of textiles and iron in the United Kingdom, p. 366; Chart showing the estimated annual consumption in the United Kingdom of pig iron, raw cotton & raw wool, the quantity of pig iron produced, and the growth of population during a series of years, p. 368; The present condition of the manufactured iron and steel trade in the North East of England, pp. 370–373; Statement giving in a summary form certain leading statistics bearing on the industrial condition of the United Kingdom, and of the following important commercial countries, viz.: Russia, United States of America, Austria-Hungary, France, Italy, Germany, and Belgium (including pig iron and production of steel), pp. 374–375; Statement showing the quantity of coal and of pig iron produced, and the quantity of pig iron consumed, in the United Kingdom 1854–1902, pp. 439–442. Vol. 2. The course of employment in recent years in the coal, iron and steel trades, pp. 85–86; Statistical tables. A. Percentage unemployed in trade unions. I. Engineering, shipbuilding, and metal trades, p. 87; Chart, Series I, to follow p. 98; Employment in coal, iron, and steel trades, pp. 94–96; Abstract of the proceedings of the German commission on kartells: Rhenish-Westphalian pig iron syndicate, pp. 411–413; Half-finished steel syndicate, pp. 413–416; The rolled wire and wire nail kartells, pp. 416–417; The wire kartells, pp. 417–418; The wire nail kartell, pp. 418–420; Tables appended to the evidence taken on the rolled wire and wire nail kartells, pp. 421–428; Iron founders—Weekly rates of wages, p. 579; Production and consumption of pig iron, p. 580, 584; Production of pig iron in Germany, France, and the United States, p. 589.

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CONTENTS.—Memorandum; Statistical tables: Table I. Iron ore:—Statement showing for the years 1890 to 1905 inclusive, and for each of the undermentioned countries, the total output and consumption of iron ore, and the output and consumption per head of the population of each country: (a) United Kingdom, (b) Russian Empire (exclusive of Finland), (c) Sweden, (d) Germany (including Luxemburg), (e) Belgium, (f) France, (g) Spain, (h) Austria-Hungary, (i) United States. Table II. Pig iron:—Statement showing for the years 1890 to 1905 inclusive, and for each of the undermentioned countries, the total production and consumption of pig iron and the production and consumption per head of the population in each country: (a) United Kingdom, (b) Russian Empire (exclusive of Finland), (c) Sweden, (d) Germany (including Luxemburg), (e) Belgium, (f) France, (g) Spain, (h) Austria-Hungary, (i) United States. Table III. Steel:—Statement showing the total production of steel, and the production per head of the population, in the United Kingdom, Russia, Sweden, Germany and Luxemburg, Belgium, France, Spain and the United States in each of the years 1890 to 1905 inclusive: (a) Total production, (b) Production per head of the population. Table IV. Imports and exports:—Statement showing for each of the years 1900 to 1905 the quantities of the principal classes of iron and steel manufactures imported into, and exported from, each of the under-mentioned countries: (a) United Kingdom, (b) Germany, (c) France, (d) United States.

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Among the contents the following are to be noted: Section II. Relative position of the British and foreign iron and steel trades, ¶ 17–40; Section III. The position of the British iron and steel trades with regard to (1) the home market (2) exports to foreign countries and British possessions, ¶ 41–44; Section IV. Experience of manufacturers, ¶ 45–46; Section V. Alleged causes of the relative decline of the British iron and steel industry, ¶ 47–54; Section VI. The export systems of foreign countries, ¶ 55–61; Section VII. Dumping, ¶ 62–75; Section VIII. The remedy, ¶ 76–85; Section XII. Memoranda: (a) Recent developments in the United States iron and steel industry, ¶ 94–123; (b) summary of evidence before the United States Industrial commission on the iron and steel industries, ¶ 124–131; (c) the organisation and working of German Kartells, ¶ 132–152; Section XIII. Foreign and colonial import duties, ¶ 153–154; Section XIV. Statistical tables: (a) Exports of iron and steel, manufactured and partly manufactured, showing principal countries of declared destination, ¶ 155–177; (b) imports of iron and steel, manufactured and partly manufactured, with principal countries of declared origin, ¶ 178–185; (c) imports of iron and steel into British colonies, ¶ 186–191; (d) exports from Germany, ¶ 192–193; (e) development of home and export trades, ¶ 194–196; (f) state of employment in the iron and steel trades, ¶ 197–200; Section XVI. Replies to forms of inquiry: (a) Imports competing with British products, ¶ 202–214; (b) sources of supply, ¶ 215–243; (c) foreign competition at home, ¶ 244–307; (d) foreign competition in neutral and protected markets, ¶ 308–359; (e) suggested reduction of foreign tariffs, ¶ 360–367; (f) loss of employment, ¶ 368–387; (g) differential railway and shipping rates, ¶ 388–404; (h) advantages of industrial combinations, ¶ 405–422; (i) remedial measures, ¶ 423–437; (j) effect and incidence of import duties, ¶ 438–470; (k) colonial preferential tariffs, ¶ 471–485.

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"A monograph dealing with the present condition of the American steel trade, written by the professor of political economy at the University of Halle. The subjects treated are: (1) The demand for steel in the United States, (2) the raw production, (a) the first stages of the modern development, (b) advances and reductions in cost during the past twenty-five years, (c) the cost of production at the

present time, (d) the conditions of remunerative working in pig-iron production, (e) the manufacture of steel ingots; (3) the manufacture of finished products, (a) heavy products, (b) rails, (c) structural material, (d) billets, (e) the wire industry, (f) the tin-plate industry; (4) the modern development of the steel industry and the export problem. In conclusion, the position of the European countries in regard to American competition is discussed, and arguments in favour of the free trade policy for England are adduced."

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